

CLAIMS

1) A mission control system (1), characterized by comprising:

- an operator station (3);
- 5 - a head-mounted display (5) worn by an operator;
- digital gloves (6) worn by the operator;
- a tracker (7) for tracking the movements of said head-mounted display and said digital gloves; and
- a mission computer (4) housed in said operator station (3) and connected to said head-mounted display (5), to said digital gloves (6), and to said tracker (7), to allow the operator to impart gestural commands by means of said digital gloves (6), and to receive visual information by means of said head-mounted display (5).

15 2) A system as claimed in Claim 1, characterized by also comprising:

- a headset (8) worn by the operator; and
 - a microphone (9) worn by the operator;
- said headset (8) and said microphone (9) being connected to said mission computer (4) to allow the operator to impart voice commands by means of said microphone (9), and to receive audio information by means of said headset (8).

25 3) A system as claimed in Claim 1—~~or~~—2, characterized in that said headset (8) and said microphone (9) are integrated in said head-mounted display (5).

4) A system as claimed in ~~any one of the foregoing~~

Claims₁, characterized in that said head-mounted display (5) displays a window (20) movable within a larger work window (21) in response to movements of the head-mounted display (5).

5 5) A system as claimed in ~~any one of the foregoing~~ Claims₁, characterized in that said operator station comprises an operator seat (3) having a compartment for housing said mission computer (4).

10 6) A system as claimed in Claim 5, characterized in that said operator seat (3) has a further compartment for housing said head-mounted display (5) and said digital gloves (6).

7) A system as claimed in ~~any one of the foregoing~~ Claims₁, characterized by also comprising:

15 - a hand control (12) fitted to said operator station (3) and connected to said mission computer (4) to permit remote control of electrooptical devices.

20 8) A system as claimed in Claim 7, characterized in that said hand control (12) comprises a joystick integrated in a first armrest of said operator seat (3).

9) A system as claimed in ~~any one of the foregoing~~ Claims₁, characterized by also comprising:

 - a pointer (11) fitted to said operator station (3) and connected to said mission computer (4).

25 10) A system as claimed in Claim 9, characterized in that said pointer (11) is a trackball, and is integrated in said first armrest of said operator seat (3).

11) A system as claimed in ~~any one of the foregoing~~

Claims₁, characterized by also comprising:

- a biometric sensor (13) fitted to said operator station (3) and connected to said mission computer (4) to permit access to the mission control system (1) by authorized operators.

12) A system as claimed in ~~any one of the foregoing~~

Claims₁, characterized by also comprising:

- a keyboard (10) connected to said mission computer (4) and fitted to said operator station (3).

10 13) A system as claimed in Claim 12, characterized in that said keyboard (10) is integrated in a second armrest of said operator seat (3).

14) A system as claimed in ~~any one of the foregoing~~

Claims₁, characterized by also comprising interface means (15) for connection of removable external filing devices.

15 15) A system as claimed in ~~any one of the foregoing~~

Claims₁, characterized in that said tracker (7) comprises:

20 - a transmitter (17) housed in said operator station (3);

- two receivers (18) associated respectively with said head-mounted display (5) and at least one of said digital gloves (6); and

25 - a central processing unit (19) connected to said transmitter (17) and to said receivers (18) to track the movements of said head-mounted display (5) and said digital gloves (6).

16) A system as claimed in ~~any one of the foregoing~~
Claims_1, characterized by also comprising:

- a display (14) fitted to the rear face of said
operator seat (3) and used as a repeater to relay the
5 images displayed on said head-mounted display (5).

17) A vehicle (2), characterized by comprising a
mission control system (1) as claimed in ~~any one of the~~
~~foregoing~~ Claims_1.

18) A vehicle as claimed in Claim 17, characterized
10 by comprising a fixed- or rotary-wing aircraft.